

Title (en)

Switched capacitor type D/A converter and display driver

Title (de)

D/A-Wandler und Bildanzeigesteuerungsschaltung mit geschalteten Kapazitäten

Title (fr)

Convertisseur N/A et circuit de commande d'affichage à capacités commutées

Publication

EP 0967728 A3 20030115 (EN)

Application

EP 99111507 A 19990614

Priority

JP 17921398 A 19980625

Abstract (en)

[origin: EP0967728A2] Disclosed is a switched capacitor type D/A converter, which comprises: an operational amplifier; a plurality of capacitors; a plurality of first switches which alternatively change connection thereof dependently on whether the filter is in an output mode or a reset mode so that the filter realizes an offset canceling function; a voltage source; and a second switch for directly connecting an output of said operational amplifier with said voltage source at a beginning of the reset mode. <IMAGE>

IPC 1-7

H03M 1/10

IPC 8 full level

G09G 3/36 (2006.01); **G09G 3/20** (2006.01); **H03H 19/00** (2006.01); **H03M 1/10** (2006.01); **H03M 1/66** (2006.01); **H03M 1/74** (2006.01); **H03M 1/80** (2006.01)

CPC (source: EP KR US)

F21S 8/026 (2013.01 - KR); **F21V 17/12** (2013.01 - KR); **F21V 21/043** (2013.01 - KR); **H03M 1/1023** (2013.01 - EP US); **F21Y 2103/00** (2013.01 - KR); **H03M 1/804** (2013.01 - EP US)

Citation (search report)

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- [X] US 5696509 A 19971209 - MAEJIMA TOSHIO [JP]
- [A] US 4429281 A 19840131 - ITO AKIHIKO [JP], et al
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- [A] FUMIO UENO ET AL: "NEW SWITCHED-CAPACITOR D/A AND A/D CONVERTERS IMMUNE TO CAPACITOR MISMATCH", TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS OF JAPAN, INST. OF ELECTRONICS & COMMUNIC. ENGINEERS OF JAPAN. TOKYO, JP, vol. E71, no. 12, 1 December 1988 (1988-12-01), pages 1291 - 1297, XP000210745

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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EP 0967728 A2 19991229; **EP 0967728 A3 20030115**; **EP 0967728 B1 20060510**; DE 69931214 D1 20060614; DE 69931214 T2 20070308; JP 2000013234 A 20000114; JP 3216604 B2 20011009; KR 100380834 B1 20030418; KR 20000006428 A 20000125; TW 419906 B 20010121; US 6169509 B1 20010102

DOCDB simple family (application)

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